

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the Application of: YADAV

CASE NO.: CL1944 US NA

APPLICATION NO.: 10/611,748

GROUP ART UNIT: UNKNOWN

FILED: JUNE 30, 2003

EXAMINER: UNKNOWN

FOR: METHOD OF CONTROLLING GENE SILENCING USING SITE-SPECIFIC RECOMBINATION

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

In compliance with 37 CFR 1.97 and 1.98, Applicants bring to the attention of the U.S. Patent and Trademark Office information listed on the enclosed PTO/SB/08A and PTO/SB/08B. A copy of the information is also enclosed.

For the Examiner's convenience Applicants additionally enclose a CD rom containing a copy of PTO 1449 in MS Word format containing hyperlinks to the full text of all cited references.

Should any fee be required in connection with the filing of this Information Disclosure Statement, please charge such fee to Deposit Account No. 04-1928 (E. I. du Pont de Nemours and Company).

Respectfully submitted,

S. NEIL FELTHAM

Attorney for Applicant(s) Registration No. 36,506

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Dated: 10/9/05

Enclosures

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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 3

Complete if Known						
Application Number	10/611,748					
Filing Date	June 30, 2003					
First Named Inventor	Yadav					
Group Art Unit	Unknown					
Examiner Name	Unknown					
Attorney Docket Number	CL1944 US NA					

-	U.S. PATENT DOCUMENTS								
Examiner Initials *	Cite No.1	U.S. Patent Document Number Kind Code² (if known)	ode ² of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear				
		6,110,736	Hodges et al.	08/29/2000					
		6,077,992	Yadav	06/20/2000					
									
	 								
	 								

		For	eign Patent Docu		N PATENT DOCU		Pages, Columns, Lines,	
Examiner Initials*	Cite No. ¹	Office ³	Number ⁴ K	ind Code ⁵	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Where Relevant Passages or Relevant Figures Appear	T ₆
		WO	91/09957		Odell et al.	07/11/1991		
		WO	97/37012		Surin et al.	10/09/1997		
	·	wo	93/01283	A1	Ow et al.	01/21/1993		
		wo	01/36595	A2	Yadav et al.	05/25/2001		
		wo	00/17365	A2	Yadav et al.	03/30/2000		
		EP	1115870	A2	Yadav et al.	03/30/2000	≈ WO 00/17365 A2	

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				Group Art Unit	Unknown			
(use as many sheets as necessary)			necessary)	Examiner Name	Unknown	_		
Sheet	2	of	3	Attorney Docket Number	CL1944 US NA			

		OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS	
Examiner nitials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	τ
		Fire, A., RNA-triggered gene silencing, Trends Genet. 15(9): pp. 358-363, 1999	
		Sharp. P. A., RNAi and double-strand RNA, Genes Dev., Vol. 13: pp. 139-141, 1999	
		Sharp et al., RNA Interference, Science, 287, 5462, 2431-3, 2000	
		Waterhouse et al., Gene silencing as an adaptive defence against viruses, Nature, 411: 834-842, June 14, 2001	
		Vaucheret et al., Transcriptional gene silencing in plants: targets, inducers and regulators, TRENDS in Genetics 17(1): pp. 29-35, 2001	
		Okamoto et al., Silencing of transposable elements in plants, TRENDS in Plant Sci. 6(11): 527-534, 2001	
		Pruss, et al., Plant Viral Synergism: The P{otyviral Genome Encodes a Broad-Range Pathogenicity Enhancer that Transactivates Replication of Heterologous Viruses, Plant Cell 9: pp. 859-868, 1997	
		Anandalakshmi et al., A viral suppressor of gene silencing in plants, Proc. Natl. Acad. Sci. USA, 95,(22),: 13079-84, 1998	
	·	Brigneti, G. et al., Viral pathogenicity determinants are suppressors of transgene silencing in Nicotiana benthamiana, EMBO J., 17(22): 6739-46, 1998	
		Kasschau, K. D. and J. C. Carrington, A Counterdefensive Strategy of Plant Viruses: suppressionof Posttranscriptional Gene Silencing, Cell, 95(4): 461-70, 1998	
		Smith et al., Total silencing by intron-spliced hairpin RNAs, Nature 407: 319, 2000	
		De Buck et al., Transgene silencing of invertedly repeated transgenes is relesed upon deletion of one of the transgenes involved, Plant Mol. Biol. 46: 433, 2001	
		Hutvagner et al., A Cellular Function for the RNA-Interference Enzyme Dicer in the Maturation of the let-7 Small Temporal RNA, Science 293: 834, 2001	
		Odell et al., Seed Specific Gene Activation Mediated by the Cre/lox Site-Specific Recombination System, Plant Physiol. 106: 447-458, 1994	
		Russel et al., Directed excision of a transgene from the plant genome, Mol. Gen. Genet. 234: 49-59, 1992	
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		Craig, The mechanism of Conservative Site-Specific Recombination, Annu. Rev. Genet, 22: 77-105, 1998	
		Odell et al., Use of site-specific recombination systems in plants. Homologous Recomb. Gene Silencing Plants, 1994, pp 219-70, Paszkowski, Jerzy, ed. Kluwer. Dordrecht, Germany	
		Zubko et al., Intrachromosomal recombination between attP regions as a tool to remove selectable marker genes from tobacco transgenes, Nature, Biotechnology, 18: 442, 2000	
		Groth et al., A phage integrase directs efficient site-specific integration in human cells, Proc. Natl. Acad. Sci. USA 97: 5995, 2000	
		Zygosaccharomyces rouxii, Chromosome Engineering in Saccharomyces cerevisiae by Using a Site-Specific Recombination System of a Yeast Plasmid, PSR1System: H. Matsuzaki et al., J. Bacteriology, 172, 610, 1990	
		Onouchi et al., Operation of an efficient site-specific recombination system of Zygosaccharomyces rouxii in tobacco cells, Nucleic Acid Res., 19: 6373, 1991	
		The nuclease DICER, Ambros, Dicing Up RNAs, Science 293: 811-813, Aug. 3, 2001	
		Vance et at., RNA Silencing in Plants – Defense and Counterdefense, Science 292: 2277, 2001	
		Knight et al., A Role for the Rnase III Enzyme DCR-1 in RNA Interference and Germ Line Development in Caenorhabditis elegans, Science Vol. 293, September 21, 2001	

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